

REMARKS

Claims 13 and 40-44 have been amended to further particularly point out and distinctly claim subject matter regarded as the invention. The text of claims 14-24, 26, 45, and 46 is unchanged, but their meaning is changed because they depend from amended claim 13.

Claims 1-12, 25, and 27-39 have been canceled, without prejudice.

New claims 47-61 also particularly point out and distinctly claim subject matter regarded as the invention.

Attached hereto is a marked-up version of the changes made to the claims by the current Amendment. The attached page is captioned "Version with Markings to Show Changes Made."

The 35 U.S.C. § 103 Rejection

Claim 1 stands rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over *Hogan et al.* (US 5,778,368) in view of *Palay et al.* (US 5,613,120). Claims 2, 4-15, 17-28, 30-38, 40-43, 45, and 46 stand rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over *Hogan* in view of *Palay* in further view of *Lindholm* (US 5,859,368). Claim 44 stands rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over *Hogan* in view of *Palay* in view of *Lindholm* in further view of *Nakagawa et al.* (US 5,832,911). Claims 3, 16, 29, and 39 stand rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over *Hogan* in view of *Palay* in view of *Lindholm* in view of *Nakagawa* in further view of *Gish* (US 5,768,510).

These rejections are respectfully traversed.

A review of the Abstract of the present application should provide a basis of understanding of the invention before general review of the rejections is undertaken. Broadly speaking, the invention includes both the design of the network with new features and the utilization of those new features. As variously claimed,

A management method enables a remote client to manage the network device. The management method includes the steps of receiving from a remote client a request to manage a software program which has a binary file with an embedded downloadable unit, locating the downloadable unit embedded in the binary file, extracting the downloadable unit from the binary file, and forwarding the downloadable unit to the remote client.

Implicit in the above are the facts that the remote client is distinct from the network device and that the remote client is one that knows that the specific network device exists, knows that they have an interest in managing the network device, and knows what operation they want to perform on the network device. However, the remote client may not have the specific mechanism necessary to manage the network device. Further, the remote client knows that if they contact the network device then the network device itself will provide them with the mechanism that they lack. In this context, the remote client is not typically the average network user but is a network professional charged with establishing and maintaining the network that includes the network device to be managed.

Turning generally to the rejections, it should first be noted that with this paper claims 1-12, 25, and 27-39 have been cancelled thereby rendering the rejections with respect to these claims moot. Further, with this paper, independent claims 13 and 40-44 have been amended to include or emphasize elements/limitations that are not disclosed or suggested by the prior art. Claims 14-24, 26, 45, and 46 depend from claim 13 and therefore also contain these elements/limitations.

Consequently, in view of the above, it is respectfully asserted that the claims are now in condition for allowance.

Request for Allowance

In view of the foregoing, reconsideration and an early allowance of this application are earnestly solicited.

If any matters remain which could be resolved in a telephone interview between the Examiner and the undersigned, the Examiner is invited to call the undersigned to expedite resolution of any such matters.

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW CHANGES MADE**IN THE CLAIMS**

Claims 1-12, 25, and 27-39 have been cancelled.

Claims 13 and 40-44 have been amended as follows:

13. (Amended Five Times) A system for managing a network device from a remote client, the system comprising:

a network device control software program included in the network device, the network device control software program comprising:

a binary file [of a network device control software program stored in the network device;] comprising a downloadable unit embedded in the binary file, [for managing the network device,] the downloadable unit including a communicator component for establishing a communications channel between the remote client and the network device control software program, an interface component for enabling [a user] the remote client to communicate with the [downloadable unit] network device control software program, and a configuration component for managing [and configuring] the network device [or the network device control software program]; [and]

an extractor for extracting the embedded downloadable unit from the binary file;

a web server for communicating with the remote client and for transmitting the downloadable unit to the remote client;

a communicator for receiving and interpreting commands from the remote client to the network device; and

a configuration component for performing commands from the remote client on the network device,

wherein the remote client utilizes the downloadable unit to manage the network device.

40. (Amended Three Times) A method comprising [the steps of]:
receiving from a remote client at a network device a request to manage the network
device, the network device including a network device control software program having a binary
file;
locating a downloadable unit which corresponds to the request and is embedded in the
binary file;
extracting the downloadable unit from the binary file; and
forwarding the downloadable unit to the remote client,
wherein the remote client utilizes the downloadable unit to manage the network device.

41. (Amended Twice) A system comprising:
means for receiving from a remote client at a network device a request to manage the
network device, the network device including a network device control software program having
a binary file;
means for locating a downloadable unit corresponding to the request embedded in the
binary file;
means for extracting the downloadable unit from the binary file; and
means for forwarding the downloadable unit to the remote client,
wherein the remote client utilizes the downloadable unit to manage the network device.

42. (Amended Three Times) A computer-storage medium storing program code for
causing a computer to perform the steps of:

receiving from a remote client at a network device a request to manage the network device, the network device including a network device control software program having a binary file;

locating a downloadable unit which corresponds to the request and is embedded in the binary file;

extracting the downloadable unit from the binary file; and

forwarding the downloadable unit to the remote client,

wherein the remote client utilizes the downloadable unit to manage the network device.

43. (Amended Four Times) A system comprising:

a web server for receiving from a remote client at a network device a request to manage a network device control software program which has a binary file with an embedded downloadable unit for performing the request,

the downloadable unit including:

 a communicator component for establishing a communications channel between the remote client and the network device control software program,

 an interface component for enabling [a user] the remote client to communicate with the [downloadable unit] network device control software program, and

 a configuration component for managing [and configuring the network device or] the network device control software program;

an extractor coupled to the web server for extracting the downloadable unit from the binary file; and

 a communicator coupled to the extractor for forwarding the downloadable unit to the remote client upon request of the remote client,

wherein the remote client utilizes the downloadable unit to manage the network device control software program.

44. (Amended Five Times) A method for modifying available remote device management services of a network device, the method comprising [the steps of]:
obtaining a new downloadable unit for performing a new service, the new downloadable unit including:

a communicator component for establishing a communications channel between a remote client and [a] the network device [control software program],

an interface component for enabling [a user] the remote client to communicate with the new downloadable unit, and

a configuration component for managing [and configuring] the network device [or the network device control software program];

retrieving [the] a network device control software program binary file having an embedded old downloadable unit for performing an old service from the network device;

substituting the old downloadable unit with the new downloadable unit; and

loading the network device control software program binary file having the new downloadable unit embedded in the binary file onto the network device.

Claims 47-61 have been added as follows:

47. (New) A network device, comprising:

a network device control software program comprising:

a downloadable unit embedded in the binary file, the downloadable unit including a communicator component for establishing a communications channel between a remote

client and the network device control software program, an interface component for generating a user-interface to enable a user at the remote client to enter requests to configure the network device, and a configuration component for forwarding the requests from the remote client to the network device over the communications channel; communication code that receives and interprets the requests forwarded from the remote client to the network device, and configuration code that performs the requests to configure the network device.

48. (New) The network device of claim 47, further comprising a web server for communicating with the remote client and for transmitting the downloadable unit to the remote client upon request of the remote client, wherein the remote client utilizes the downloadable unit to manage the network device.

49. (New) The network device of claim 48, wherein the web server communicates with the remote client using a file transfer protocol.

50. (New) The network device of claim 48, wherein the web server communicates with the remote client using an internet protocol.

51. (New) The network device of claim 47, further comprising a network router.

52. (New) The network device of claim 47, wherein the downloadable unit includes a JavaTM class.

53. (New) The network device of claim 47, wherein the downloadable unit includes an ActiveX™ control.

54. (New) The network device of claim 47, wherein the downloadable unit includes more than one downloadable unit.

55. (New) The network device of claim 54, wherein the downloadable units have been combined into downloadable unit bundles.

56. (New) The network device of claim 55, wherein the downloadable units have been combined into downloadable unit bundles according to downloadable unit function.

57. (New) The network device of claim 55, wherein the downloadable units have been combined into downloadable unit bundles according to version information.

58. (New) The network device of claim 47, wherein the network device control software program includes an operating system.

59. (New) The network device of claim 58, further comprising a router.

60. (New) The network device of claim 47, wherein the network device control software program includes extractor code for extracting the embedded downloadable unit.

61. (New) The network device of claim 47, wherein the network device control software program is currently executing on the network device.